



Brunsing Associates, Inc.

May 2, 2006

Project No. 403

Ms. Darcy Bering
Sonoma County Department of Health Services
Environmental Health Division
475 Aviation Boulevard, Suite 220
Santa Rosa, California 95403

**Groundwater Monitoring Report
January 2006
3610 Gravenstein Highway South
Sebastopol, California**

Dear Ms. Bering:

This report presents the results of groundwater monitoring performed at Lander's Automotive, 3610 Gravenstein Highway South, Sebastopol, California (Plate 1) by Brunsing Associates, Inc. (BAI). The groundwater sampling was performed on April 11, 2006. A reduced groundwater monitoring program was approved in the Sonoma County Department of Health Services (SCDHS) letter dated October 26, 2004.

SITE HISTORY

In December 1986, three underground storage tanks (USTs) were removed from the site by Eddie Neal Construction, Inc., of Santa Rosa, California. Two tanks were located in a common excavation; one 7,500-gallon tank had stored unleaded gasoline and one 5,000-gallon tank had stored leaded gasoline. One approximately 300-gallon tank used to store waste oil was located within 20 feet south of the fuel tanks excavation (Plate 2). Soil samples collected from the gasoline tanks excavation contained concentrations of total petroleum hydrocarbons (TPH) as gasoline up to 33 milligrams per kilogram (mg/kg). A soil sample collected beneath the waste oil tank excavation was analyzed for TPH as diesel but not for other waste oil constituents. TPH as diesel was not detected in that sample.

To date, there have been eleven groundwater monitoring wells constructed under the direction of Trans Tech Consultants (TTC) and BAI. Wells MW-8 and MW-11 have since been abandoned. Thirty-five borings have also been drilled and sampled, of which some

were converted to monitoring wells. A map showing the locations of borings B-1 through B-16, which were drilled by TTC, is contained in Appendix A. The locations of the monitoring and domestic wells, and borings B-17 through B-35 are shown on Plate 2. The analytical test results of the groundwater samples collected to date indicate that there was petroleum hydrocarbon impacted groundwater in the area of the former gasoline USTs (wells MW-3 and MW-4, Plate 2), near the southern portion of the study site in the vicinity of well MW-7, and in the area of the former dispenser island and product lines (well MW-11). A summary of the groundwater monitoring well organic analytical data is presented in Table 1, and the water-level elevations are presented in Table 2.

In September 2003, approximately 612 tons of contaminated soil was excavated adjacent to and north of the former dispenser island. The soil was transported to and disposed at Forward Landfill. The results of the soil remediation were presented in BAI's report dated December 22, 2003.

On December 12, 2004, BAI drilled three soil borings (B-33, B-34, and B-35) at the locations shown on Plate 2 to further delineate the lateral extent of petroleum hydrocarbon contamination in soil and groundwater in the vicinity of well MW-7. Additionally, on February 7, 2005, BAI excavated in the vicinity of the anomaly reported by NORCAL Geophysical Consultants, Inc. Soil samples were collected from the excavation and the borings, and groundwater samples were collected from the borings. The results of this investigation were presented in BAI's "Additional Site Investigation Report," dated June 7, 2005. The analytical data from soil and groundwater samples collected from soil borings are presented in Tables 3 and 4, respectively.

WATER-LEVEL MEASUREMENTS

Depths to groundwater were measured in wells MW-1 through MW-7, and MW-10 on April 11, 2006 by BAI personnel. The water levels in wells MW-1, MW-3, MW-4, MW-6, MW-7, and MW-10 were at the top of casing. The depths to groundwater and the calculated elevations for this sampling event are presented in Table 2. The groundwater flow direction and gradient could not be calculated because of insufficient data. The groundwater elevation map is shown on Plate 3.

GROUNDWATER SAMPLING

Monitoring wells MW-1, MW-3, MW-4, and MW-7 were sampled on April 11, 2006. The wells were sampled in accordance with the sampling protocol presented in Appendix B. The samples were analyzed by BACE Analytical and Field Services (BAFS) for TPH as



gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX), petroleum oxygenates and lead scavengers.

The groundwater sample collected from well MW-7 contained TPH as gasoline at 5.2 milligrams per liter (mg/l), toluene at 5.87 micrograms per liter ($\mu\text{g/l}$), ethylbenzene at 278 $\mu\text{g/l}$, and xylenes at 342 $\mu\text{g/l}$ (Table 1). The groundwater sample collected from well MW-3 contained benzene at a concentration of 0.79 $\mu\text{g/l}$. None of the analytes tested were reported in the groundwater samples collected from wells MW-1 and MW-4. The groundwater analytical data for the monitoring wells are summarized in Table 1, and the April 2006 sampling field forms are included in Appendix B. The domestic well analytical results are summarized in Table 5. The laboratory report, including quality assurance/quality control data, is presented in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

The toluene and xylenes concentrations increased, and the TPH as gasoline and ethylbenzene concentrations decreased in well MW-7 compared to the previous sampling event in January 2006. The benzene concentration increased in the sample collected from well MW-3 and decreased in the sample collected from well MW-4, compared to the January 2006 concentrations.

BAI submitted a "Soil Excavation Workplan," dated January 12, 2006, to excavate in the vicinities of well MW-7 and boring B-29. The data generated from the soil excavation investigation will be incorporated into the proposed site conceptual model. Therefore, BAI recommends that completion of the site conceptual model be postponed until the excavation soil and groundwater data has been evaluated. The excavation will be performed in the Spring, after groundwater levels have dropped. Presently, groundwater is near the ground surface in the monitoring wells.

SCHEDULE FOR NEXT MONITORING ACTIVITIES

The next quarterly sampling event is tentatively scheduled for July 2006.



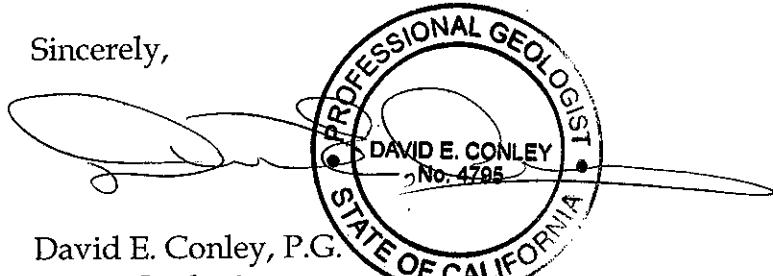
Ms. Darcy Bering

May 2, 2006

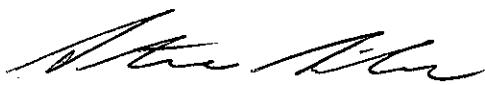
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If you have any questions regarding this report, please contact David Conley at (707) 838-3027.

Sincerely,



David E. Conley, P.G.
Senior Geologist

A handwritten signature of the name "Steve Silva".

Steve Silva
Project Geologist

- Attachments:
- Table 1. Groundwater Analytical Data Starting in 1993
 - Table 2. Groundwater Elevation Data Starting in 1994
 - Table 3. Soil Sample Analytical Data - Soil Borings
 - Table 4. Groundwater Sample Analytical Data - Soil Borings
 - Table 5. Domestic Well Analytical Data Starting in 2002

- Plate 1. Location Map
- Plate 2. Site Map
- Plate 3. Groundwater Elevation Map, April 11, 2006

- Appendix A. TTC Site Plan and Location Map
- Appendix B. Sampling Protocol and Field Forms
- Appendix C. Analytical Laboratory Reports

cc: Mr. John Lander



TABLES



Table 1. Groundwater Analytical Data Starting in 1993
 3610 Gravenstein Highway South
 Sebastopol, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	TPH as Diesel (mg/l)	TPH as Motor Oil (mg/l)	Oil and Grease (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (EPA 8020) (µg/l)	VOCs (EPA 8010) (µg/l)	MTBE * (EPA 8260) (µg/l)
MW-1	4/6/1993	ND	na	na	10	ND	ND	ND	na	na	na	na
MW-1	12/14/1994	ND	na	na	na	ND	ND	ND	na	na	na	na
MW-1	12/18/1996	ND	ND	ND	na	ND	ND	ND	na	na	na	na
MW-1	4/25/2002	<0.050	na	na	na	4.06	<0.50	<0.50	<0.50	na	na	ND
MW-1	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-1	7/25/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-1	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-1	12/15/2003	<0.050	na	na	na	<0.30	<0.30	<0.50	<0.50	na	na	<0.50
MW-1	4/8/2004	<0.050	na	na	na	0.53	<0.50	<0.50	<0.50	na	na	<1.0
MW-1	7/21/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-1	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-1	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-1	4/27/2005	<0.05	na	na	na	0.59	<0.50	<0.50	<0.50	na	na	<1.0
MW-1	7/6/2005	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-1	10/17/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-1	1/25/2006	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-1	4/11/2006	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-2	4/6/1993	0.35	0.92	na	ND	44	ND	ND	ND	ND	ND	na
MW-2	12/14/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na
MW-2	12/18/1996	ND	ND	ND	na	1.5	1.3	ND	ND	na	na	na
MW-2	5/16/1997	ND	ND	ND	na	ND	ND	ND	ND	na	na	na
MW-2	11/3/1997	ND	ND	ND	na	ND	ND	ND	ND	na	na	na
MW-2	4/24/2002	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-2	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<0.50
MW-2	7/25/2003	0.090	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-2	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-2	12/16/2003	<0.050	na	na	na	<0.30	<0.30	<0.50	<0.50	na	na	<0.50
MW-2	4/8/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-2	7/20/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-2	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na



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MW-2	1/20/2005	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-2	10/14/2005	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	4/6/1993	0.11	na	na	na	24	ND	ND	2.8	na	na	na
MW-3	12/14/1994	ND	0.05	ND	ND	3.6	ND	ND	ND	na	0.9 (PCE)	na
MW-3	12/17/1996	ND	ND	ND	na	1.7	ND	ND	ND	ND	0.7 (PCE)	na
MW-3	5/16/1997	ND	ND	ND	na	ND	ND	ND	ND	ND	ND	na
MW-3	11/3/1997	0.21	0.28 (A)	na	na	ND	ND	ND	1.7	2.2	ND	na
MW-3	11/11/1998	ND	ND	ND	na	ND	ND	ND	ND	ND	na	na
MW-3	9/2/1999	0.28	na	na	na	1.5	ND	ND	1.1	ND	na	ND
MW-3	12/17/1999	ND	na	na	na	ND	ND	ND	ND	na	na	ND
MW-3	4/24/2002	ND	na	na	na	5.19	<0.50	<0.50	<0.50	na	na	ND
MW-3	4/23/2003	<0.050	na	na	na	4.36	<0.50	<0.50	<0.50	na	na	ND
MW-3	7/25/2003	0.16	na	na	na	0.540	<0.50	<0.50	<0.50	na	na	ND(D)
MW-3	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-3	12/15/2003	<0.050	na	na	na	3.9	<0.30	<0.50	<0.50	na	na	<0.50
MW-3	4/8/2004	<0.050	na	na	na	1.79	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	7/20/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	4/27/2005	<0.05	na	na	na	1.06	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	7/6/2005	<0.050	na	na	na	0.58	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	10/17/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	1/25/2006	<0.05	na	na	na	0.62	<0.50	<0.50	<0.50	na	na	<1.0
MW-3	4/11/2006	<0.050	na	na	na	0.79	<0.50	<0.50	<0.50	na	na	<1.0
MW-4	4/6/1993	3.8	na	na	na	17	5.0	46	55	na	na	na
MW-4	12/14/1994	0.67	0.42 (A)	ND	ND	56	51	13	17	na	0.9 (1,1-DCA)	na
MW-4	12/17/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na
MW-4	5/16/1997	ND	ND	na	na	ND	ND	ND	ND	ND	ND	na
MW-4	11/3/1997	0.65	0.53 (A)	na	na	10	4.5	1.1	6.6	ND	ND	nd
MW-4	11/11/1998	ND	ND	na	ND	ND	ND	ND	ND	na	na	na



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MW-4	9/2/1999	0.44	na	na	1.6	4.9	1.4	1.6	na	na	na	ND
MW-4	12/17/1999	0.59	na	na	2.0	2.7	1.7	2.6	na	na	na	ND
MW-4	4/25/2002	<0.050	na	na	2.38	<0.50	<0.50	<0.50	na	na	na	ND
MW-4	4/23/2003	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	ND
MW-4	7/25/2003	0.28	na	na	<0.50	<0.50	0.530	0.700	na	na	na	ND
MW-4	10/21/2003	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	ND
MW-4	12/15/2003	0.072	na	na	<0.30	<0.30	<0.50	<0.50	na	na	na	<0.50 (E)
MW-4	4/8/2004	<0.050	na	na	1.00	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-4	7/21/2004	0.15	na	na	<0.50	<0.50	1.54	<0.50	na	na	na	<1.0
MW-4	10/28/2004	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-4	1/20/2005	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-4	4/27/2005	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-4	7/6/2005	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-4	10/17/2005	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-4	1/25/2006	<0.05	na	na	0.52	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-4	4/11/2006	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-5	12/14/1994	ND	na	na	ND	ND	ND	ND	ND	ND	na	na
MW-5	12/18/1996	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
MW-5	5/16/1997	ND	ND	na	ND	ND	ND	ND	ND	ND	na	na
MW-5	11/3/1997	ND	ND	na	ND	ND	ND	ND	ND	ND	na	na
MW-5	4/25/2002	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	ND
MW-5	4/23/2003	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	ND
MW-5	7/25/2003	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	ND
MW-5	10/21/2003	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	ND
MW-5	12/16/2003	<0.050	na	na	<0.30	<0.30	<0.50	<0.50	na	na	na	<0.50
MW-5	4/8/2004	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-5	7/20/2004	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-5	10/28/2004	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-5	1/20/2005	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-5	10/14/2005	<0.05	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na	na



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MW-6	12/14/1994	ND	na	ND	ND	ND	ND	ND	na	na	na	na
MW-6	12/18/1996	ND	na	na	na	ND	ND	ND	na	na	na	na
MW-6	4/24/2002	ND	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-6	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-6	7/25/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-6	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	ND
MW-6	12/16/2003	<0.050	na	na	na	<0.30	<0.30	<0.50	na	na	na	<0.50 (F)
MW-6	4/8/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-6	7/21/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-6	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-6	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-6	10/14/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	na	na	na	<1.0
MW-7	12/14/1994	9.0	4.8 (A)	ND	15	25	19	190	1,300	na	ND	na
MW-7	12/18/1996	7.4	6.3 (A)	ND	na	ND	20	360	970	na	na	na
MW-7	5/16/1997	2.9	3.3 (A)	na	na	1.3	0.9	34	14	ND	na	na
MW-7	11/3/1997	5.3	4.6 (A)	na	na	13	8.8	150	320	ND	na	na
MW-7	11/11/1998	7.0	ND	na	na	4.9	16	300	790	na	na	na
MW-7	9/2/1999	5.2	na	na	na	4.2	11	190	480	na	na	ND
MW-7	12/17/1999	7.9	na	na	na	8.7	13	310	570	na	na	ND
MW-7	4/24/2002	0.72	na	na	na	<0.50	<0.50	18.9	1.91	na	na	ND
MW-7	4/23/2003	0.13	na	na	na	<0.50	<0.50	6.68	2.98	na	na	ND
MW-7	7/25/2003	0.87	na	na	na	<10	22.3	50.2	115	na	na	ND
MW-7	10/21/2003	2.0	na	na	na	<5.0	<5.0	141	101	na	na	<25
MW-7	12/15/2003	4.4	na	na	na	<1.5	<1.5	120	97	na	na	<5.0
MW-7	4/8/2004	0.78	na	na	na	<2.5	<2.5	28.6	32.0	na	na	<1.0
MW-7	7/20/2004	2.3	na	na	na	1.55	4.23	200	141	na	na	<1.0
MW-7	10/28/2004	1.8	na	na	na	1.92	<0.50	170	28.8	na	na	<2.0
MW-7	1/21/2005	7.4	na	na	na	2.03	5.11	324	502	na	na	<2.0



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MW-7	4/27/2005	2.2	na	na	<2.5	<2.5	74.4	49.7	na	na	na	<5.0
MW-7	7/6/2005	0.11	na	na	0.55	<1.0	2.31	1.33	na	na	na	<2.0 (G)
MW-7	10/17/2005	7.8	na	na	1.42	2.19	187	101	na	na	na	<2.0
MW-7	1/25/2006	10	na	na	<2.5	3.88	282	298	na	na	na	<5.0
MW-7	4/11/2006	5.2	na	na	<5.0	5.87	278	342	na	na	na	<10
MW-8	12/15/1994	ND	na	na	ND	ND	ND	ND	ND	na	na	na
MW-8	12/18/1996	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na
MW-9	12/14/1994	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na
MW-9	12/18/1996	ND	ND	ND	na	ND	ND	ND	ND	na	na	na
MW-9	7/24/2001	na	na	na	na	na	na	na	na	na	na	ND
MW-9	4/24/2002	<0.050	na	na	<0.50	<0.50	<0.50	<0.50	<0.50	na	na	1.24
MW-9	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-9	7/25/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-9	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-9	12/16/2003	<0.50	na	na	na	<30	<30	<50	<50	na	na	<50
MW-9	4/8/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-9	7/21/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-9	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-9	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-10	12/17/1996	ND	ND	ND	na	ND	ND	ND	ND	ND	ND	na
MW-10	5/16/1997	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
MW-10	11/3/1997	ND	ND	ND	na	ND	ND	ND	ND	na	na	na
MW-10	12/17/1999	ND	na	na	na	ND	ND	ND	ND	na	na	ND
MW-10	4/25/2002	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-10	4/23/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-10	7/25/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	ND
MW-10	10/21/2003	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-10	12/16/2003	<0.050	na	na	na	<0.30	<0.30	<0.50	<0.50	na	na	<0.50
MW-10	4/7/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na
MW-10	7/21/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	na





Table 1. Groundwater Analytical Data Starting in 1993
 3610 Gravenstein Highway South
 Sebastopol, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	TPH as Diesel (mg/l)	Motor Oil (mg/l)	Oil and Grease (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (EPA 8020) (µg/l)	VOCs (EPA 8010) (µg/l)	MTBE * (EPA 8260) (µg/l)
MW-10	10/28/2004	<0.050	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-10	1/20/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	<1.0
MW-10	10/14/2005	<0.05	na	na	na	<0.50	<0.50	<0.50	<0.50	na	na	5.91
MW-11	11/11/1998	0.26	ND	ND	na	77	21	4.8	35	na	(B)	na
MW-11	9/2/1999	34	na	na	na	7,900	7,400	1,600	5,500	na	na	ND (C)
MW-11	12/17/1999	7.4	na	na	na	2,100	68	8.8	1,500	na	na	ND (C)
MW-11	4/24/2002	0.88	na	na	na	340	<2.5	32.5	62.6	na	na	ND (C)

1993 data collected by Trans Tech Consultants and included in their report dated May 24, 1993.

ND = Not detected at the method reporting limit.

< = Not detected above specified reporting limit.

ns = Well not sampled due to inaccessability.

na = Not analyzed.

mg/l = milligrams per liter.

µg/l = micrograms per liter.

MTBE = methyl tertiary butyl ether, PCE = tetrachloroethene, 1,1-DCA = 1,1-dichloroethane.

(A) = Chromatographic peak array does not match commercial diesel standard; probable source is weathered gasoline.

(B) = 1,2-dibromoethane at 2.26 µg/l and 1,2-dichloroethane at 9.65 µg/l reported in sample.

(C) = 1,2-dichloroethane reported at 311 µg/l for 9/2/99, 116 µg/l for 12/17/99, and 12.5 µg/l for 4/24/02.

(D) = 1,2-dichloroethane reported at 1.22 µg/l.

(E) = tert-butyl alcohol reported at 13 µg/l.

(F) = 1,4-dichlorobenzene reported at 3.2 µg/l.

(G) = isopropylbenzene reported at 2.76 µg/l, naphthalene at 2.00 µg/l, and n-propylbenzene at 1.26 µg/l.

* Analyzed for petroleum oxygenates and lead scavengers by EPA Test Method 8260; only those detected are listed.

Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South

Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1	12/14/1994	87.60	1.25	86.35	North to Northwest
MW-2	12/14/1994	88.33	2.25	86.08	
MW-3	12/14/1994	87.92	1.30	86.62	
MW-4	12/14/1994	87.70	1.29	86.41	
MW-5	12/14/1994	86.91	2.31	84.60	
MW-6	12/14/1994	86.63	0.58	86.05	
MW-7	12/14/1994	89.36	1.54	87.82	
MW-8	12/14/1994	88.74	1.02	87.72	
MW-9	12/14/1994	88.52	1.61	86.91	
MW-1	12/17/1996	87.60	0.83	86.77	Northwest
MW-2	12/17/1996	88.33	1.68	86.65	
MW-3	12/17/1996	87.92	0.78	87.14	
MW-4	12/17/1996	87.70	1.53	86.17	
MW-5	12/17/1996	86.91	2.47	84.44	
MW-6	12/18/1996	86.63	0.78	85.85	
MW-7	12/17/1996	89.36	1.03	88.33	
MW-8	12/17/1996	88.74	0.89	87.85	
MW-9	12/17/1996	88.52	2.33	86.19	
MW-10	12/17/1996	86.35	-0.03	86.38	
MW-1	5/16/1997	87.60	2.17	85.43	North to Northwest
MW-2	5/16/1997	88.33	3.37	84.96	
MW-3	5/16/1997	87.92	2.13	85.79	
MW-4	5/16/1997	87.70	2.10	85.60	
MW-5	5/16/1997	86.91	3.33	83.58	
MW-6	5/16/1997	86.63	na	na	
MW-7	5/16/1997	89.36	2.06	87.30	
MW-8	5/16/1997	88.74	1.78	86.96	
MW-9	5/16/1997	88.52	1.71	86.81	
MW-10	5/16/1997	86.35	1.39	84.96	
MW-1	11/3/1997	87.60	5.12	82.48	North
MW-2	11/3/1997	88.33	5.41	82.92	
MW-3	11/3/1997	87.92	5.12	82.80	
MW-4	11/3/1997	87.70	5.08	82.62	
MW-5	11/3/1997	86.91	5.08	81.83	
MW-6	11/3/1997	86.63	na	na	
MW-7	11/3/1997	89.36	5.49	83.87	
MW-8	11/3/1997	88.74	5.11	83.63	
MW-9	11/3/1997	88.52	4.99	83.53	
MW-10	11/3/1997	86.35	4.23	82.12	



Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South
Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1	11/10/1998	87.60	3.47	84.13	North
MW-2	11/10/1998	88.33	3.84	84.49	
MW-3	11/10/1998	87.92	3.55	84.37	
MW-4	11/10/1998	87.70	3.53	84.17	
MW-5	11/10/1998	86.91	3.87	83.04	
MW-6	11/10/1998	86.63	2.74	na	
MW-7	11/10/1998	89.36	4.18	85.18	
MW-9	11/10/1998	88.74	4.04	84.70	
MW-10	11/10/1998	88.52	3.75	84.77	
MW-1	9/2/1999	87.60	4.61	82.99	Northwest
MW-2	9/2/1999	88.33	4.98	83.35	
MW-3	9/2/1999	87.92	4.70	83.22	
MW-4	9/2/1999	87.70	4.73	82.97	
MW-5	9/2/1999	86.91	4.97	81.94	
MW-6	9/2/1999	86.63	4.35	82.28	
MW-7	9/2/1999	89.36	4.63	84.73	
MW-9	9/2/1999	88.74	5.43	83.31	
MW-10	9/2/1999	88.52	na	na	
MW-11	9/2/1999	ns	3.75	ns	
MW-1	12/17/1999	87.60	3.27	84.33	North
MW-2	12/17/1999	88.33	3.64	84.69	
MW-3	12/17/1999	87.92	3.37	84.55	
MW-4	12/17/1999	87.70	3.36	84.34	
MW-5	12/17/1999	86.91	3.93	82.98	
MW-6	12/17/1999	86.63	2.77	83.86	
MW-7	12/17/1999	89.36	4.05	85.31	
MW-9	12/17/1999	88.74	3.97	84.77	
MW-10	12/17/1999	88.52	2.31	86.21	
MW-11	12/17/1999	ns	3.57	ns	
MW-1	4/24/2002	87.60	1.04	86.56	North to Northwest
MW-2	4/24/2002	88.33	1.51	86.82	
MW-3	4/24/2002	87.92	0.95	86.97	
MW-4	4/24/2002	87.70	1.15	86.55	
MW-5	4/24/2002	86.91	2.74	84.17	
MW-6	4/24/2002	86.63	1.26	85.37	
MW-7	4/24/2002	89.36	1.34	88.02	
MW-9	4/24/2002	88.74	2.35	86.39	
MW-10	4/24/2002	88.52	0.19	88.33	
MW-11	4/24/2002	ns	0.98	ns	



Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South

Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1	4/23/2003	87.60	0.75	86.85	West to Northwest
MW-2	4/23/2003	88.33	0.96	87.37	
MW-3	4/23/2003	87.92	0.71	87.21	
MW-4	4/23/2003	87.70	0.86	86.84	
MW-5	4/23/2003	86.91	2.56	84.35	
MW-6	4/23/2003	86.63	0.95	85.68	
MW-7	4/23/2003	89.36	1.06	88.30	
MW-9	4/23/2003	88.74	2.23	86.51	
MW-10 ^A	4/23/2003	88.52	0.00	>88.52	
MW-1	7/25/2003	87.60	4.01	83.59	West to East
MW-2	7/25/2003	88.33	4.31	84.02	
MW-3	7/25/2003	87.92	4.05	83.87	
MW-4	7/25/2003	87.70	4.14	83.56	
MW-5	7/25/2003	86.91	4.59	82.32	
MW-6	7/25/2003	86.63	3.84	82.79	
MW-7	7/25/2003	89.36	3.70	85.66	
MW-9	7/25/2003	88.74	4.65	84.09	
MW-10	7/25/2003	88.52	3.49	85.03	
MW-1	10/21/2003	87.60	5.82	81.78	West to North
MW-2	10/21/2003	88.33	6.31	82.02	
MW-3	10/21/2003	87.92	6.03	81.89	
MW-4	10/21/2003	87.70	5.99	81.71	
MW-5	10/21/2003	86.91	5.88	81.03	
MW-6	10/21/2003	86.63	5.36	81.27	
MW-7	10/21/2003	89.36	5.75	83.61	
MW-9	10/21/2003	88.74	6.49	82.25	
MW-10	10/21/2003	88.52	5.16	83.36	
MW-1	12/15/2003	87.60	2.77	84.83	Northwest ^B
MW-2	12/16/2003	88.33	3.12	85.21	
MW-3	12/15/2003	87.92	2.92	85.00	
MW-4	12/15/2003	87.70	2.88	84.82	
MW-5	12/16/2003	86.91	3.40	83.51	
MW-6	12/16/2003	86.63	1.99	84.64	
MW-7	12/15/2003	89.36	4.70	84.66	
MW-9	12/16/2003	88.74	2.77	85.97	
MW-10	12/16/2003	88.52	1.94	86.58	



Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South

Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1	4/7/2004	87.60	0.87	86.73	West to Northwest
MW-2	4/7/2004	88.33	1.37	86.96	
MW-3	4/7/2004	87.92	0.84	87.08	
MW-4	4/7/2004	87.70	0.96	86.74	
MW-5	4/7/2004	86.91	2.64	84.27	
MW-6	4/7/2004	86.63	1.08	85.55	
MW-7	4/7/2004	89.36	1.35	88.01	
MW-9	4/7/2004	88.74	2.30	86.44	
MW-10	4/7/2004	88.52	0.17	88.35	
MW-1	7/20/2004	87.60	4.59	83.01	
MW-2	7/20/2004	88.33	5.07	83.26	West to Northwest
MW-3	7/20/2004	87.92	4.80	83.12	
MW-4	7/20/2004	87.70	4.78	82.92	
MW-5	7/20/2004	86.91	4.96	81.95	
MW-6	7/20/2004	86.63	4.39	82.24	
MW-7	7/20/2004	89.36	4.34	85.02	
MW-9	7/20/2004	88.74	5.31	83.43	
MW-10	7/20/2004	88.52	4.17	84.35	
MW-1	10/28/2004	87.60	5.70	81.90	
MW-2	10/28/2004	88.33	6.10	82.23	West to Northwest
MW-3	10/28/2004	87.92	5.88	82.04	
MW-4	10/28/2004	87.70	5.71	81.99	
MW-5	10/28/2004	86.91	5.66	81.25	
MW-6	10/28/2004	86.63	4.70	81.93	
MW-7	10/28/2004	89.36	6.49	82.87	
MW-9	10/28/2004	88.74	5.85	82.89	
MW-10	10/28/2004	88.52	4.77	83.75	
MW-1	1/20/2005	87.60	0.45	87.15	
MW-2	1/20/2005	88.33	1.59	86.74	West to Northwest
MW-3	1/20/2005	87.92	0.41	87.51	
MW-4	1/20/2005	87.70	0.55	87.15	
MW-5	1/20/2005	86.91	2.29	84.62	
MW-6	1/20/2005	86.63	0.69	85.94	
MW-7	1/20/2005	89.36	0.74	88.62	
MW-9	1/20/2005	88.74	2.22	86.52	
MW-10 ^A	1/20/2005	88.52	0.00	>88.52	



Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South

Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1	4/27/2005	87.60	0.46	87.14	West to Northwest
MW-2	4/27/2005	88.33	1.70	86.63	
MW-3	4/27/2005	87.92	0.47	87.45	
MW-4	4/27/2005	87.70	0.61	87.09	
MW-5	4/27/2005	86.91	2.43	84.48	
MW-6	4/27/2005	86.63	0.88	85.75	
MW-7	4/27/2005	89.36	0.82	88.54	
MW-10 ^A	4/27/2005	88.52	0.00	>88.52	
MW-1	7/6/2005	87.60	2.32	85.28	West to Northwest
MW-2	7/6/2005	88.33	2.58	85.75	
MW-3	7/6/2005	87.92	2.34	85.58	
MW-4	7/6/2005	87.70	2.41	85.29	
MW-5	7/6/2005	86.91	3.43	83.48	
MW-6	7/6/2005	86.63	2.23	84.40	
MW-7	7/6/2005	89.36	2.42	86.94	
MW-10	7/6/2005	88.52	1.54	86.98	
MW-1	10/14/2005	87.60	4.77	82.83	West to North
MW-2	10/14/2005	88.33	5.19	83.14	
MW-3	10/14/2005	87.92	4.95	82.97	
MW-4	10/14/2005	87.70	4.88	82.82	
MW-5	10/14/2005	86.91	5.01	81.90	
MW-6	10/14/2005	86.63	4.42	82.21	
MW-7	10/14/2005	89.36	4.82	84.54	
MW-10	10/14/2005	88.52	4.09	84.43	
MW-1 ^A	1/25/2006	87.60	0.00	>87.60	Northwest
MW-2	1/25/2006	88.33	1.00	87.33	
MW-3 ^A	1/25/2006	87.92	0.00	>87.92	
MW-4 ^A	1/25/2006	87.70	0.00	>87.70	
MW-5	1/25/2006	86.91	1.56	85.35	
MW-6 ^A	1/25/2006	86.63	0.00	>86.63	
MW-7	1/25/2006	89.36	0.23	89.13	
MW-9	1/25/2006	88.74	1.55	87.19	
MW-10 ^A	1/25/2006	88.52	0.00	>88.52	



Table 2. Groundwater Elevation Data Starting in 1994

3610 Gravenstein Highway South
Sebastopol, California

Well Number	Date Measured	Elevation at Top of Casing (feet above MSL)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet above MSL)	Predominant Groundwater Flow Direction
MW-1 ^A	4/11/2006	87.60	0.00	>87.60	Not Calculated
MW-2	4/11/2006	88.33	0.09	88.24	
MW-3 ^A	4/11/2006	87.92	0.00	>87.92	
MW-4 ^A	4/11/2006	87.70	0.00	>87.70	
MW-5	4/11/2006	86.91	1.32	85.59	
MW-6 ^A	4/11/2006	86.63	0.00	>86.63	
MW-7 ^A	4/11/2006	89.36	0.00	>89.36	
MW-9 ^A	4/11/2006	88.74	0.00	>88.74	
MW-10 ^A	4/11/2006	88.52	0.00	>88.52	

MSL = Referenced to Mean Sea Level

na = Well not accessible for measurement

BTOC = Below top of casing

ns = Not surveyed

Well MW-8 was abandoned on October 26, 1998 and Well MW-11 was abandoned on June 11, 2002

^A=Water at top of casing

^B Calculated using data from wells MW-5, MW-6, and MW-10





Table 3. Soil Sample Analytical Data - Soil Borings
 3610 Gravenstein Highway South
 Sebastopol, California

Boring Number	Date Sampled	Depth (feet)	TPH as gasoline (mg/kg)	TPH as diesel (mg/kg)	TPH as motor oil (mg/kg)	Oil and Grease (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Xylenes (µg/kg)	MTBE (µg/kg)	EPA 8010/8240 (µg/kg)
B-1	08/31/92	2.0	<1	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-1	08/31/92	4.5	<1	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-2	08/31/92	3.0	<1	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-2	08/31/92	5.5	3.9	na	na	na	4.4	<2.5	<2.5	<2.5	na	na
B-3	08/31/92	3.0	210¹	na	na	na	<125	<125	790	<125	na	na
B-3	08/31/92	5.0	3.8	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-4 (MW-1)	09/01/92	1.5	<1	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-4 (MW-1)	09/01/92	4.5	<1	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-5	03/22/93	2.5	340	39²	48	1,200	41³	<2.5	<2.5	<2.5	<2.5	na
B-5	03/22/93	7.5	<1	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-6	03/22/93	2.0	1500	na	na	na	310	560	1,100	2,300	na	na
B-6	03/22/93	4.5	180	na	na	na	100	280	370	270	na	na
B-7	03/22/93	2.5	<1	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-9	03/23/93	3.0	<1	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-11 (MW-2)	03/23/93	3.0	<1	2.1²	<10	<50	<2.5	<2.5	<2.5	<2.5	na	ND
B-12	03/23/93	2.5	87	na	na	na	180	<2.5	85	130	na	na
B-12	03/23/93	5.5	16	na	na	na	600	160	180	550	na	na
B-14	03/25/93	3.0	<1	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-15	03/25/93	2.5	<1	na	na	na	<2.5	<2.5	<2.5	<2.5	na	na
B-16 (MW-4)	03/25/93	2.5	69	na	na	na	<2.5	25	120	140	na	na
B-17	11/29/94	2.5	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	na	na
B-18	11/29/94	2.5	<1.0	<1.0	<10	<50	<5.0	<5.0	<5.0	<5.0	na	ND
B-19	11/29/94	2.5	100¹	120²	<10	250	<5.0	<5.0	<5.0	<5.0	na	ND
B-20	11/29/94	2.5	5.3¹	28	36	80	<5.0	<5.0	<5.0	12	na	ND
B-21 (MW-5)	11/30/94	2.5	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	na	na
B-22 (MW-6)	11/30/94	2.5	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	na	na
B-23 (MW-7)	11/30/94	3.0	330	1,000²	<10	1,100	<5.0	<5.0	26	110	na	ND
B-24 (MW-8)	11/30/94	4.0	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	na	na



Table 3. Soil Sample Analytical Data - Soil Borings
 3610 Gravenstein Highway South
 Sebastopol, California

Boring Number	Date Sampled	Depth (feet)	TPH as gasoline (mg/kg)	TPH as diesel (mg/kg)	TPH as motor oil (mg/kg)	Oil and Grease (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethyl-benzene (µg/kg)	Xylenes (µg/kg)	MTBE (µg/kg)	EPA 8010/8240 (µg/kg)
B-25	12/01/94	2.5	820	na	na	na	<5.0	1,400	5,200	35,000	na	na
B-26 (MW-9)	11/30/94	2.0	<1.0	<1.0	<10	<50	<5.0	ND	ND	ND	na	ND
B-27	12/01/94	3.0	<1.0	<1.0	260	400	<5.0	<5.0	<5.0	<5.0	na	ND
B-28	12/01/94	3.0	<1.0	<1.0	20	<50	<5.0	<5.0	<5.0	<5.0	na	ND
B-29	12/01/94	3.0	180	1,100 ²	4,100	7,000	<5.0	<5.0	<5.0	<5.0	na	ND
B-30	12/01/94	2.5	42	na	na	na	140	430	820	3,000	na	na
B-31	12/01/94	4.0	<1.0	<1.0	<10	na	<5.0	<5.0	<5.0	<5.0	ND	na
B-31	12/01/94	7.0	<1.0	<1.0	<10	na	<5.0	<5.0	<5.0	<5.0	na	na
B-32b	12/01/94	5.0	<1.0	<1.0	<10	na	<5.0	<5.0	<5.0	<5.0	ND	na
MW-11	10/27/98	4.0	2.0	<1.0	<10	na	540	490	220	670	<200	na
MW-11	10/27/98	10.0	<1.0	<1.0	<10	na	5.1	<5.0	<5.0	<5.0	<50	na
B-33	12/10/04	5	250	na	na	na	<500	<500	<500	716	<500	na
B-33	12/10/04	10	<5.0	na	na	na	<25	<25	<25	<25	<25	na
B-34	12/10/04	5	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	<5.0	na
B-34	12/10/04	10	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	<5.0	na
B-35	12/10/04	5	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	<5.0	na
B-35	12/10/04	10	<1.0	na	na	na	<5.0	<5.0	<5.0	<5.0	<5.0	na

µg/kg = micrograms per kilogram.

mg/kg = milligrams per kilogram.

MTBE = methyl tertiary butyl ether.

¹= Chromatographic peak array does not match commercial gasoline standard.

²= Chromatographic peak array does not match commercial diesel standard or resemble commercial mineral spirit standard.

³= EPA Test Method 8240 result.

ND = not detected at method reporting limit.

na = not analyzed.



Table 4. Groundwater Sample Analytical Data - Soil Borings
 3610 Gravenstein Highway South
 Sebastopol, California

Boring Number	Date Sampled	TPH as Gasoline (mg/l)	TPH as Diesel (mg/l)	TPH as Motor Oil (mg/l)	Oil and Grease (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE ^A (µg/l)
B-17	4/6/93	ND	nr	ND	nr	ND	ND	ND	ND	nr
B-18	12/14/94	0.24 ^B	0.25 ^C	ND	ND	ND	ND	ND	ND	nr
B-19	12/18/96	1.2 ^B	1.4 ^C	ND	1.8	ND	ND	1.1	3.9	nr
B-20	4/6/93	0.8 ^B	0.6 ^C	ND	ND	ND	ND	8.4	4.0	nr
B-21 (MW-5)	12/14/94	ND	nr	nr	nr	ND	ND	ND	ND	nr
B-22 (MW-6)	12/18/96	ND	nr	nr	nr	ND	ND	ND	ND	nr
B-25	5/16/97	60	nr	nr	780	4,700	3,300	19,000	19,000	nr
B-27	11/3/97	0.17	0.06	2.0	2.5	ND	ND	ND	1.8	nr
B-28	4/6/93	ND	ND	ND	ND	ND	ND	ND	ND	nr
B-29	12/14/94	0.32 ^B	0.15 ^C	ND	ND	1.2	ND	ND	1.7	nr
B-30	12/17/96	160	nr	nr	nr	16,000	44,000	6,800	31,000	nr
B-31	5/16/97	ND	ND	ND	nr	ND	ND	ND	ND	0.783
B-32	11/3/97	ND	ND	ND	nr	ND	ND	ND	ND	ND
B-33	12/10/04	1.7	nr	nr	<10	<10	46.1	193	<20	
B-34	12/10/04	4.2	nr	nr	<5.0	<5.0	48.9	<5.0	<10	
B-35	12/10/04	1.0	nr	nr	<5.0	<5.0	49.7	<5.0	<10	

µg/l = micrograms per liter.

mg/l = milligrams per liter.

MTBE = methyl tertiary butyl ether.

^A = Analyzed using EPA Test Method 8260 for petroleum oxygenates and lead scavengers, none detected.
 Only those compounds detected are listed.

^B = Chromatographic peak array does not match commercial gasoline standard.

^C = Chromatographic peak array resembles that obtained from commercial mineral spirit standard.

D = Methylene chloride detected at 10 µg/l, Trichloroethene detected at 0.5 µg/l

E = Chlorobenzene detected at 2.2 µg/l

Table 5. Domestic Well Analytical Data Starting in 2002

3610 Gravenstien Highway South

Sebastopol, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE EPA Method 8260B* (µg/l)
DW-3598	4/25/2002	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3610	4/25/2002	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3617	4/25/2002	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3625	4/25/2002	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-5221	4/25/2002	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3598	7/25/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3610	7/25/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3617	7/25/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3625	7/25/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-5221	7/25/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3598	10/21/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3610	10/21/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3617	10/21/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3625	10/21/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-5221	10/21/2003	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3598	12/18/2003	<0.050	<0.30	<0.30	<0.50	<0.50	<0.50
DW-3610	12/18/2003	<0.050	<0.30	<0.30	<0.50	<0.50	<0.50
DW-3617	12/18/2003	<0.050	<0.30	<0.30	<0.50	<0.50	<0.50
DW-3625	12/18/2003	<0.050	<0.30	<0.30	<0.50	<0.50	<0.50
DW-5221	12/18/2003	<0.050	<0.30	<0.30	<0.50	<0.50	<0.50
DW-3598	4/8/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3610	4/7/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3617	4/7/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3625	4/8/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3627	4/8/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-5221	4/8/2004	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0
DW-3598	7/21/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3610	7/21/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3617	7/21/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3625	7/21/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-5221	7/21/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3598	10/28/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3610	10/28/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3617	10/28/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3625	10/28/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0
DW-5221	10/28/2004	<0.050	<0.50	<0.50	<0.50	<0.50	<1.0



Table 5. Domestic Well Analytical Data Starting in 2002

3610 Gravenstien Highway South

Sebastopol, California

Well Number	Date Sampled	TPH as Gasoline (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE EPA Method 8260B* (µg/l)
DW-3598	1/21/2005	<0.05	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3610	1/21/2005	<0.05	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3617	1/20/2005	<0.05	<0.50	<0.50	<0.50	<0.50	<1.0
DW-3625	1/20/2005	<0.05	<0.50	<0.50	<0.50	<0.50	<1.0
DW-5221	1/21/2005	<0.05	<0.50	<0.50	<0.50	<0.50	<1.0

mg/l = milligrams per liter

µg/l = micrograms per liter

TPH = total petroleum hydrocarbons

*analyzed for petroleum oxygenates and lead scavengers; none detected.

Sample Locations

DW-3598 =3598 Gravenstein Highway

DW-3610 =3610 Gravenstein Highway

DW-3617 =3617 Mt. Vernon Road

DW-3625 =3625 Gravenstein Highway

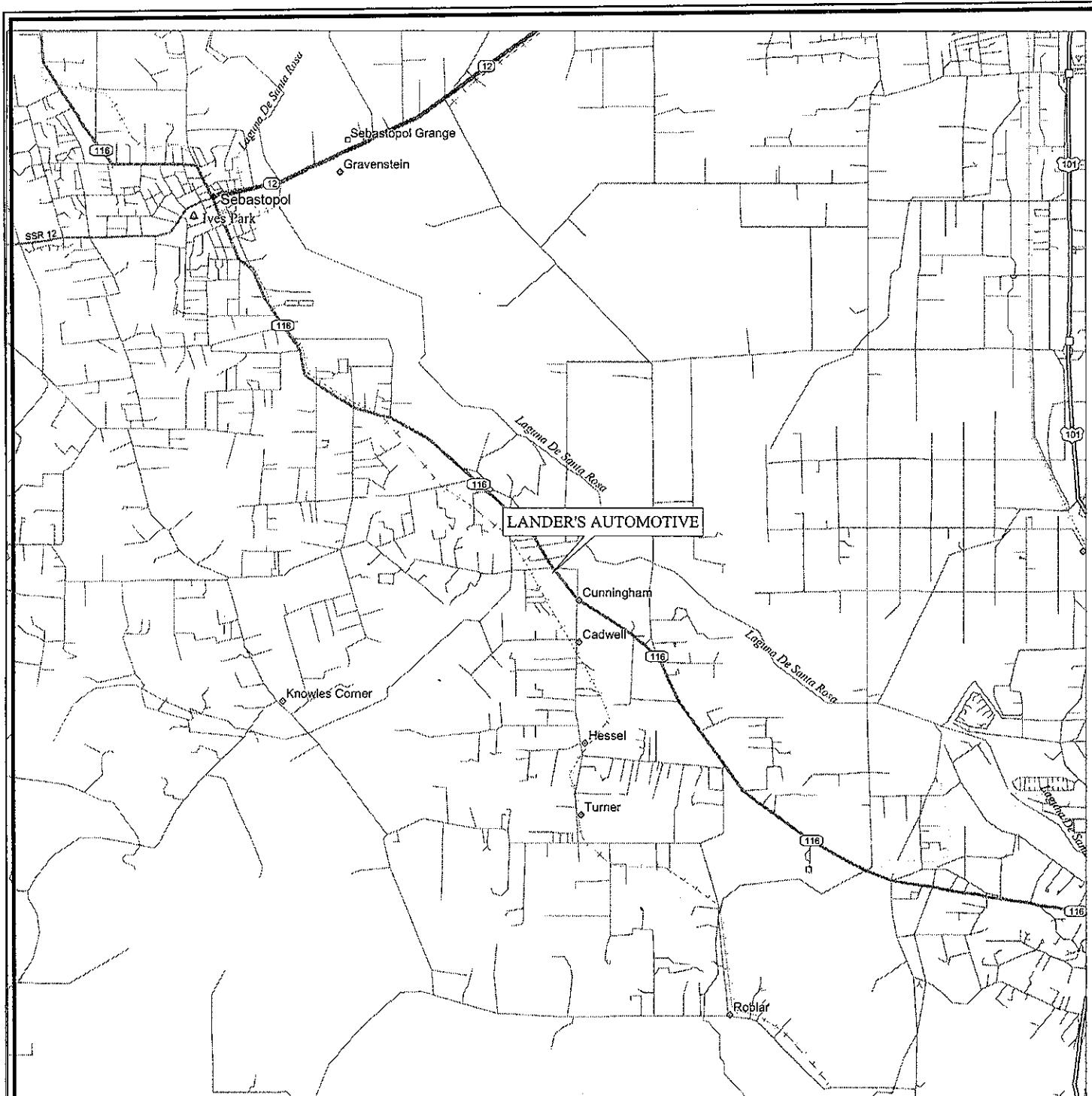
DW-3627 =3627 Gravenstein Highway

DW-5221 =5221 Lone Pine Road



PLATES





© 1996 DeLorme Street Atlas USA

Mag 13.00

Scale 1:62,500 (at center)

Thu Jul 03 09:24 2003

1 Miles



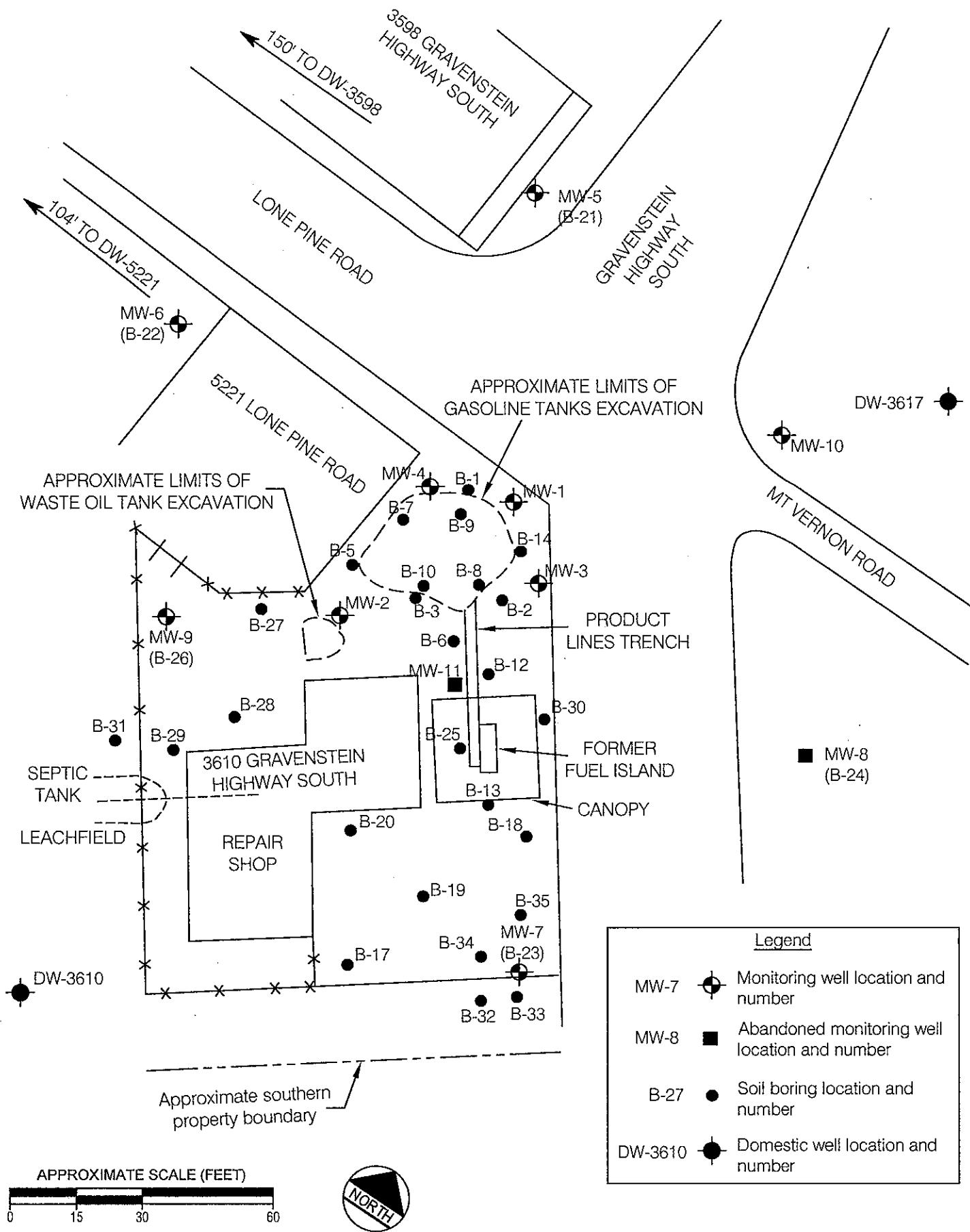
APPROXIMATE SCALE
(feet)



PROJECT NO.:	403	
DRAWN BY:	DEC	6/19/03
CHECKED BY:		
APPROVED BY:	DMU	7/3/03
REVISED BY:		

Brunsing Associates, Inc.
P.O. Box 588
Windsor, California 95492

PLATE 1
LOCATION MAP
3610 Gravenstien Highway South
Sebastopol, California

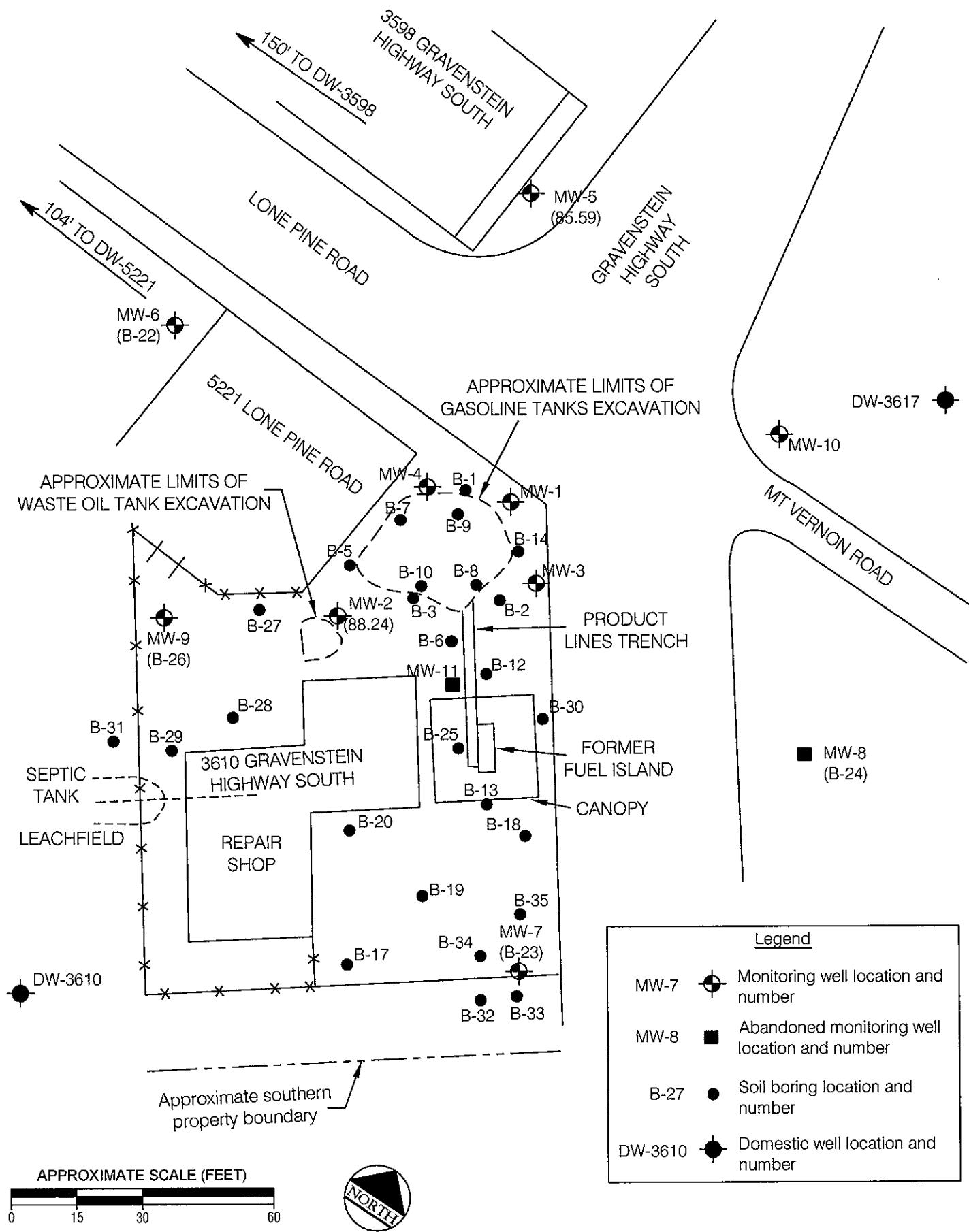


Brunsing Associates, Inc.
5468 Skylane Blvd., Suite 201
Santa Rosa, California 95403
Tel: (707) 838-3027

Job No.: 403
Appr.: *[Signature]*
Date: 1/10/06

SITE MAP
LANDER'S AUTOMOTIVE
3610 Gravenstein Highway South
Sebastopol, California

PLATE
2



Brunsing Associates, Inc.
5468 Skylane Blvd., Suite 201
Santa Rosa, California 95403
Tel: (707) 838-3027

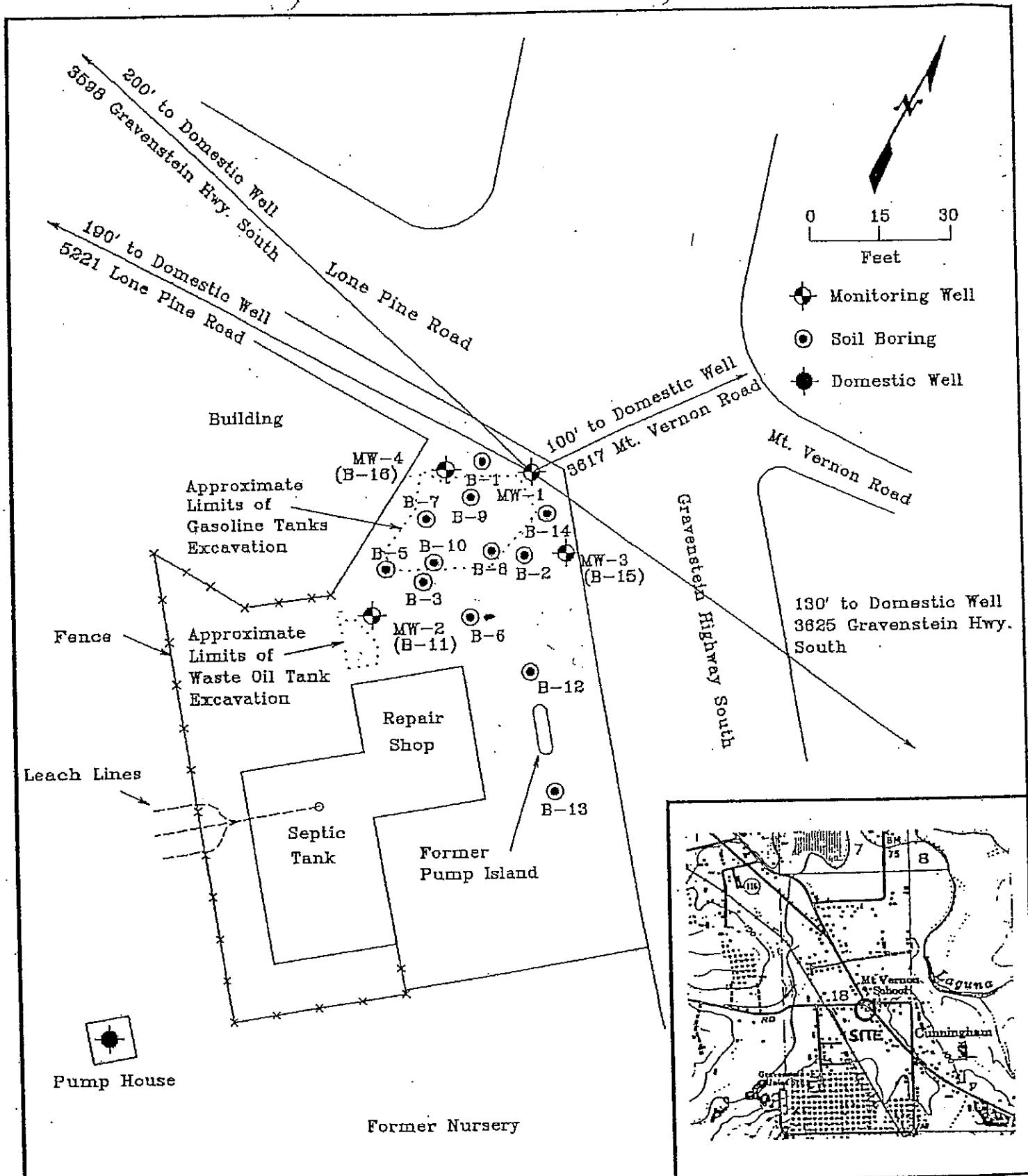
Job No.: 403
Appr.: *[Signature]*
Date: 4/24/06

GROUNDWATER ELEVATION MAP
APRIL 11, 2006
3610 Gravenstein Highway South
Sebastopol, California

PLATE
3

APPENDIX A
TTC Site Plan and Location Map





TRANS TECH CONSULTANTS
ENVIRONMENTAL AND GEOTECHNICAL SERVICES

DRAWN
BSK

JOB NUMBER
1206.01.02

APPROVED
TEL

DATE
5-21-93

0102sr.s1

APPENDIX B
Sampling Protocol and Field Forms



Groundwater Sampling Protocol

Monitoring Wells

Prior to purging a monitoring well, groundwater levels are measured with a Solinst electric depth measurement device, or an interface probe, in all wells that are to be measured. At sites where petroleum hydrocarbons are possible contaminants, the well is checked for floating product using a clear bailer, a steel tape with water/oil paste, or an interface probe, during the initial sampling round. If floating product is measured during the initial sampling round or noted during subsequent sampling rounds, floating product measurements are continued.

After the water level and floating product measurements are complete, the monitoring well is purged until a minimum of three casing volumes of water are removed, water is relatively clear of sediment, and pH, conductivity, and temperature measurements of the water become relatively stable. If the well is purged dry, groundwater samples are collected after the water level in the well recovers to at least 80 percent of the original water column measured in the well prior to sampling, or following a maximum recovery period of two hours. The well is purged using a factory-sealed, disposable, polyethylene bailer, a four-inch diameter submersible Grundfos pump, a two-inch diameter ES-40 purge pump, or a peristaltic pump. The purge water is stored on-site in clean, 55-gallon drums.

A groundwater sample is collected from each monitoring well following re-equilibration of the well after purging. The groundwater sample is collected using a factory-sealed disposable, polyethylene bailer with a sampling port, or a factory-sealed Teflon bailer. A factory provided attachment designed for use with volatile organic compounds (VOCs) is attached to the polyethylene bailer sampling port when collecting samples to be analyzed for VOCs. The groundwater sample is transferred from the bailer into sample container(s) that are obtained directly from the analytical laboratory.

The sample container(s) is labeled with a self-adhesive tag. The following information is included on the tag:

- Project number
- Sample number
- Date and time sample is collected
- Initials of sample collector(s).

Individual log sheets are maintained throughout the sampling operations. The following information is recorded:



- Sample number
- Date and time well sampled and purged
- Sampling location
- Types of sampling equipment used
- Name of sampler(s)
- Volume of water purged.

Following collection of the groundwater sample, the sample is immediately stored on blue ice in an appropriate container. A chain-of-custody form is completed with the following information:

- Date the sample was collected
- Sample number and the number of containers
- Analyses required
- Remarks including preservatives added and any special conditions.

The original copy of the chain-of-custody form accompanies the sample containers to a California-certified laboratory. A copy is retained by BAI and placed in company files.

Sampling equipment including thermometers, pH electrodes, and conductivity probes are cleaned both before and after their use at the site. The following cleaning procedures are used:

- Wash with a potable water and detergent solution or other solutions deemed appropriate
- Rinse with potable water
- Double-rinse with organic-free or deionized water
- Package and seal equipment in plastic bags or other appropriate containers to prevent contact with solvents, dust, or other contaminants.

In addition, the pumps are cleaned by pumping a potable water and detergent solution and deionized water through the system. Cleaning solutions are contained on-site in clean 55-gallon drums.

Domestic and Irrigation Wells

Groundwater samples collected from domestic or irrigation wells are collected from the spigot that is the closest to the well. Prior to collecting the sample, the spigot is allowed to flow for at least 5 minutes to purge the well. The sample is then collected directly into laboratory-supplied containers, sealed, labeled, and stored on blue ice in an appropriate container, as described above. A chain-of-custody form is completed and submitted with the samples to the analytical laboratory.



UST Yes
 Fund Site: No

FIELD REPORT

PAGE 1 OF 6

JOB NO: 403 PROJECT: Lander's Automotive - 3610 Gravenstein Hwy So. Sebastopol, CA

INITIAL: CDS SUBJECT: GROUNDWATER SAMPLING

Total Time: 8.00

DATE: 4-11-06 PROJECT PHASE NUMBER: 04

End. Mileage: 146

VEHICLE USED: Ford F-150

Beg. Mileage: 180117TOTAL MILEAGE: 29

TIME	DESCRIPTION OF WORK AND CONVERSATION RECORD
0641	LOAD EQUIPMENT AND SUPPLIES
0733	TO SITE.
0819	ARRIVED AT SITE. SET-UP FOR GROUNDWATER SAMPLING. MEASURED TWO ROUNDS OF DISTANCE TO WATER AT WELLS MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7 AND MW-10. PERFORMED SAMPLING AT WELLS MW-1, MW-3, MW-4 AND MW-7. STORED PURGEWATER IN DRUM LOCATED AT THE SOUTH WALL OF THE SHOP BUILDING CLOSED WELLS AND MONUMENTS.
	DECON SAMPLING EQUIPMENT.
	LOAD EQUIPMENT AND SUPPLIES.
	COMPLETED FIELD NOTES AND LOGGED SAMPLES ON CHAIN OF CUSTODY
1305	LEAVE SITE.
1342	ARRIVED AT OFFICE; SUBMITTED SAMPLES FOR ANALYSIS. UNLOAD EQUIPMENT AND SUPPLIES.
1444	FINISHED WITH WORK.
	DRUM COUNT: Water = <u>5</u> Devlpmt Water = Soil = Decon Water =



WATER LEVELS

SHEET 2 OF 6

PROJECT: Lander's - 3610 Gravenstein Hwy So. Sebastopol, CA PROJECT NUMBER: 403

INSTRUMENT TYPE: ET (wlp)

INITIALS: *CDS*

DATE: 4-11-06

WELL SAMPLING

SHEET 3 OF 6

PROJECT: Lander's Automotive - 3610 Gravenstein Hwy So. Sebastopol, CA PROJECT NUMBER: 403

WELL # MW-1 PRECIP. IN LAST 5 DAYS: ✓ WIND ✓ DATE: 4-11-06

STARTING TIME: 1026 FINISHING TIME: 1109 INITIALS: LOS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 0.5 =

4" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS

W
M

G
A
L
L
O
N
S

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
1032	1	5.65	2'22	13.7	CHOCOLATE BROWN, NO ODOR, SANDY
1038	4	5.66	227	14.4	TURBID BROWN, NO ODOR, SANDY
1044	8	5.82	230	14.3	TURBID BROWN, NO ODOR, SANDY

SAMPLING: SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, petro oxy & Pb scav)

SAMPLE TIME: DID WELL GO DRY?

WATER LEVELS:		NOTES:
TIME	D.T.W.	
1103	5.55	WATER AT TOP OF CASING

WELL SAMPLING

SHEET 4 OF 6

PROJECT: Lander's Automotive - 3610 Gravenstein Hwy So. Sebastopol, CA PROJECT NUMBER: 403

WELL # MW-3 PRECIP. IN LAST 5 DAYS: ✓ WIND ✓ DATE: 4-11-06

STARTING TIME: 1116 FINISHING TIME: 1147 INITIALS: LOS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: - D.T.W. = H2O COLUMN: X 0.5 = GALLONS

4" WELL DEPTH: - D.T.W. = H2O COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
1117	1	5.96	230	13.7	Cloudy Brown, NO ODOUR, SANDY
1123	3.5	5.58	225	19.7	Turbid Brown, NO ODOUR, SANDY
1129	7	5.50	221	15.3	Turbid Brown, NO ODOUR, SANDY

SAMPLING: SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, petro oxy & Pb scav)

SAMPLE TIME: DID WELL GO DRY?

WATER LEVELS:		NOTES:
TIME	D.T.W.	
1140	3.00	water at top of casing

WELL SAMPLING

SHEET 5 OF 6

PROJECT: Lander's Automotive - 3610 Gravenstein Hwy So. Sebastopol, CA PROJECT NUMBER: 403

WELL # MW-4 PRECIP. IN LAST 5 DAYS: ✓ WIND ✓ DATE: 4-11-06

STARTING TIME: 0946 FINISHING TIME: 1025 INITIALS: GDS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 0.5 =

4" WELL DEPTH: - D.T.W. = H₂O COLUMN: X 2.0 =

THEREFORE TOTAL PURGE GALLONS EQUALS

G
A
L
L
O
N
S

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
0950	1	6.09	272	13.8	CLEAR, NO ODOUR
0955	3.5	6.02	264	14.0	Cloudy Brown, no odor, sandy
1002	7	6.10	258	14.5	Turbid Light Brown, no odor, sandy

SAMPLING: SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, petro oxy & Pb scav)

SAMPLE TIME: DID WELL GO DRY?

WATER LEVELS:		NOTES:
TIME	D.T.W.	
1014	11.70	WATER AT TOP OF CASING

WELL SAMPLING

SHEET 6 OF 6

PROJECT: Lander's Automotive - 3610 Gravenstein Hwy So. Sebastopol, CA PROJECT NUMBER: 403

WELL # MW-7 PRECIP. IN LAST 5 DAYS: ✓ WIND ✓ DATE: 4-11-06

STARTING TIME: 1148 FINISHING TIME: 1231 INITIALS: CDS

CALCULATION OF PURGE VOLUME

2" WELL DEPTH: 10.00 - D.T.W. ϕ = H₂O COLUMN: 10.00 X 0.5 = 5.00

4" WELL DEPTH: [] - D.T.W. [] = H₂O COLUMN: [] X 2.0 = []

THEREFORE TOTAL PURGE GALLONS EQUALS

5

GALLONS

FIELD MEASUREMENTS

TIME	GALLONS REMOVED	pH	CONDUCTIVITY	TEMP.	OBSERVATIONS
1158	1	6.54	415	13.1	Cloudy grey, PHC odor, sediment
1202	3	6.66	415	14.3	Cloudy grey, PHC odor, sandy
1206	5	6.66	405	14.4	Cloudy grey, PHC odor, sandy

SAMPLING: SAMPLE ANALYSIS: TPH-Gas, 8260B (BTEX, petro oxy & Pb scav) .

SAMPLE TIME: 1216 DID WELL GO DRY? No

WATER LEVELS:		NOTES:
TIME	D.T.W.	
1220	4.15	WATER AT TOP OF CASING.

APPENDIX C
Analytical Laboratory Report



Laboratory Report Project Overview

EDF 1.2a

Laboratory:
Bace Analytical, Windsor, CA
Lab Report Number:
4788
Project Name:
3610 GRAVENSTEIN HWY. S.
Work Order Number:
403
Control Sheet Number:
NA

Laboratory:
Bace Analytical, Windsor, CA
Lab Report Number:
4788
Project Name:
3610 GRAVENSTEIN HWY. S.
Work Order Number:
403
Control Sheet Number:
NA

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anicode	Exmcode	Logdate	Extdate	Anadate	Labiobjct	Run Sub
4788	MW-1	4788-1	W	CS	8260FAB	SW5030B	04/11/200	04/13/200	04/13/200	20060413	15
4788	MW-1	4788-1	W	CS	CATPH-G	SW5030B	04/11/200	04/13/200	04/13/200	04132006	17
4788	MW-3	4788-2	W	CS	8260FAB	SW5030B	04/11/200	04/13/200	04/13/200	20060413	16
4788	MW-3	4788-2	W	CS	CATPH-G	SW5030B	04/11/200	04/13/200	04/13/200	04132006	18
4788	MW-4	4788-3	W	CS	8260FAB	SW5030B	04/11/200	04/13/200	04/13/200	20060413	17
4788	MW-4	4788-3	W	CS	CATPH-G	SW5030B	04/11/200	04/13/200	04/13/200	04132006	19
4788	MW-7	4788-4	W	CS	8260FAB	SW5030B	04/11/200	04/13/200	04/13/200	04132006	18
4788	MW-7	4788-4	W	CS	CATPH-G	SW5030B	04/11/200	04/13/200	04/13/200	20060413	18
4786	4786-1	W	NC	CATPH-G	SW5030B	/ /	04/13/200	04/13/200	04/13/200	04132006	10
4786	4786-2	W	NC	8260FAB	SW5030B	/ /	04/13/200	04/13/200	04/13/200	20060413	8
4788MB	W	LB1	8260FAB	SW5030B	/ /	04/13/200	04/13/200	04/13/200	04132006	2	
4788MB	W	LB1	CATPH-G	SW5030B	/ /	04/13/200	04/13/200	04/13/200	04132006	1	
4788MS	W	MS1	8260FAB	SW5030B	/ /	04/13/200	04/13/200	04/13/200	20060413	9	
4788MS	W	MS1	CATPH-G	SW5030B	/ /	04/13/200	04/13/200	04/13/200	04132006	11	
4788SD	W	SD1	8260FAB	SW5030B	/ /	04/13/200	04/13/200	04/13/200	20060413	10	
4788SD	W	SD1	CATPH-G	SW5030B	/ /	04/13/200	04/13/200	04/13/200	04132006	12	

Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

Page: 1

Project Name:	3610 GRAVENSTEIN	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Project No:	403	Method:	8260FAB			
		Prep Meth:	SW5030B			
Field ID:	MW-1	Lab Samp ID:	4788-1			
Descr/Location:	MW-1	Rec'd Date:	04/12/2006			
Sample Date:	04/11/2006	Prep Date:	04/13/2006			
Sample Time:	1100	Analysis Date:	04/13/2006			
Matrix:	Water	QC Batch:	20060413			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1
Benzene	0.27	0.50	PQL	ND	UG/L	1
Toluene	0.25	0.50	PQL	ND	UG/L	1
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1
Xylenes	0.25	0.50	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	86-118	SLSA		101%		1
Toluene-d8	88-110	SLSA		99%		1
Dibromofluoromethane	86-115	SLSA		99%		1

Approved by:

Date:

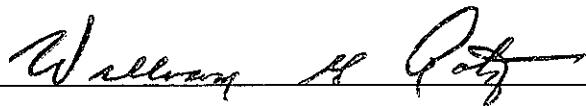
Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

Page: 2

Project Name:	3610 GRAVENSTEIN	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Project No:	403	Method:	8260FAB			
		Prep Meth:	SW5030B			
Field ID:	MW-3	Lab Samp ID:	4788-2			
Descr/Location:	MW-3	Rec'd Date:	04/12/2006			
Sample Date:	04/11/2006	Prep Date:	04/13/2006			
Sample Time:	1136	Analysis Date:	04/13/2006			
Matrix:	Water	QC Batch:	20060413			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1
Benzene	0.27	0.50	PQL	0.79	UG/L	1
Toluene	0.25	0.50	PQL	ND	UG/L	1
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1
Xylenes	0.25	0.50	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		86-118	SLSA	101%		1
Toluene-d8		88-110	SLSA	101%		1
Dibromofluoromethane		86-115	SLSA	100%		1

Approved by:



Date:

4/27/06

Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX				
Project No:	403	Method:	8260FAB				
		Prep Meth:	SW5030B				
Field ID:	MW-4	Lab Samp ID:	4788-3				
Descr/Location:	MW-4	Rec'd Date:	04/12/2006				
Sample Date:	04/11/2006	Prep Date:	04/13/2006				
Sample Time:	1011	Analysis Date:	04/13/2006				
Matrix:	Water	QC Batch:	20060413				
Basis:	Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil	
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1	
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1	
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1	
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1	
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1	
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1	
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1	
Benzene	0.27	0.50	PQL	ND	UG/L	1	
Toluene	0.25	0.50	PQL	ND	UG/L	1	
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1	
Xylenes	0.25	0.50	PQL	ND	UG/L	1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene	86-118	SLSA		102%			1
Toluene-d8	88-110	SLSA		99%			1
Dibromofluoromethane	86-115	SLSA		100%			1

Approved by:

Wesley H. Pote

Date:

4/27/06

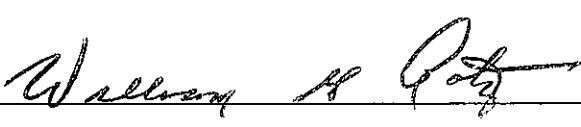
Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Project No:	403	Method:	8260FAB			
		Prep Meth:	SW5030B			
Field ID:	MW-7	Lab Samp ID:	4788-4			
Descr/Location:	MW-7	Rec'd Date:	04/12/2006			
Sample Date:	04/11/2006	Prep Date:	04/13/2006			
Sample Time:	1216	Analysis Date:	04/13/2006			
Matrix:	Water	QC Batch:	20060413			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	3.8	10.	PQL	ND	UG/L	10
Ethyl tert-butyl ether (ETBE)	3.0	10.	PQL	ND	UG/L	10
tert-Amyl methyl ether (TAME)	2.6	10.	PQL	ND	UG/L	10
Di-isopropyl ether (DIPE)	3.7	10.	PQL	ND	UG/L	10
tert-Butyl alcohol (TBA)	24.	100.	PQL	ND	UG/L	10
1,2-Dichloroethane	3.0	5.0	PQL	ND	UG/L	10
1,2-Dibromoethane	3.0	5.0	PQL	ND	UG/L	10
Benzene	2.7	5.0	PQL	ND	UG/L	10
Toluene	2.5	5.0	PQL	5.87	UG/L	10
Ethylbenzene	2.5	5.0	PQL	278	UG/L	10
Xylenes	2.5	5.0	PQL	342	UG/L	10
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	86-118	SLSA		95%		1
Toluene-d8	88-110	SLSA		98%		1
Dibromofluoromethane	86-115	SLSA		99%		1

Approved by:



Date:

4/27/06

Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	CA LUFT Method for Gasoline Range Organics			
Project No:	403	Method:	CATPH-G			
		Prep Meth:	SW5030B			
Field ID:	MW-1	Lab Samp ID:	4788-1			
Descr/Location:	MW-1	Rec'd Date:	04/12/2006			
Sample Date:	04/11/2006	Prep Date:	04/13/2006			
Sample Time:	1100	Analysis Date:	04/13/2006			
Matrix:	Water	QC Batch:	04132006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.020	0.050	PQL	ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	75-125	SLSA		90%		1

Approved by:

William H. Pote

Date:

4/27/06

Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	CA LUFT Method for Gasoline Range Organics			
Project No:	403	Method:	CATPH-G			
		Prep Meth:	SW5030B			
Field ID:	MW-3	Lab Samp ID:	4788-2			
Descr/Location:	MW-3	Rec'd Date:	04/12/2006			
Sample Date:	04/11/2006	Prep Date:	04/13/2006			
Sample Time:	1136	Analysis Date:	04/13/2006			
Matrix:	Water	QC Batch:	04132006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.020	0.050	PQL	ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	75-125	SLSA		91%		1

Approved by:

Wesley H. Potts

Date:

4/27/06

Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	CA LUFT Method for Gasoline Range Organics			
Project No:	403	Method:	CATPH-G			
		Prep Meth:	SW5030B			
Field ID:	MW-4	Lab Samp ID:	4788-3			
Descr/Location:	MW-4	Rec'd Date:	04/12/2006			
Sample Date:	04/11/2006	Prep Date:	04/13/2006			
Sample Time:	1011	Analysis Date:	04/13/2006			
Matrix:	Water	QC Batch:	04132006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.020	0.050	PQL	ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		75-125	SLSA	94%		1

Approved by:

Wallyn H. Potts

Date:

4/27/06

Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

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Project Name:	3610 GRAVENSTEIN	Analysis:	CA LUFT Method for Gasoline Range Organics			
Project No:	403	Method:	CATPH-G			
		Prep Meth:	SW5030B			
Field ID:	MW-7	Lab Samp ID:	4788-4			
Descr/Location:	MW-7	Rec'd Date:	04/12/2006			
Sample Date:	04/11/2006	Prep Date:	04/13/2006			
Sample Time:	1216	Analysis Date:	04/13/2006			
Matrix:	Water	QC Batch:	04132006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics (C5-C12)	0.100	0.250	PQL	5.2	MG/L	5
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	75-125	SLSA		99%		1

Approved by:

Wesley A. Potts

Date:

4/27/06

QA/QC Report
Method Blank Summary

Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

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QC Batch:	04132006	Analysis:	CA LUFT Method for Gasoline Range				
Matrix:	Water	Method:	CATPH-G				
Lab Samp ID:	4788MB	Prep Meth:	SW5030B				
Analysis Date:	04/13/2006	Prep Date:	04/13/2006				
Basis:	Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc	Dil
Gasoline Range Organics (C5-C12)	0.020	0.050	PQL	ND	MG/L	1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene	75-125	SLSA		88%			1

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

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QC Batch: 04132006
Matrix: Water
Lab Samp ID: 4788MS
Basis: Not Filtered

Analyte	Analysis Method	Spike Level DMS	Sample Result MS	Spike Result DMS	Units	% Recoveries			Acceptance Criteria RPD	
						MS	DMS	RPD		
Gasoline Range Organics (C5-C12)	CATPH-G	0.450	0.450	ND	0.464	0.494	MG/L	103	110 6.6	135-65 MSA 25MSP
4-Bromofluorobenzene	CATPH-G	100.	100.	89.	93.	94.	PERCENT	93.0	94.0 1.1	125-75 SLSA 20SLSP

QA/QC Report
Method Blank Summary

Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

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QC Batch:	20060413	Analysis:	VOCs by GC/MS Fuel Additives Plus BTEX			
Matrix:	Water	Method:	8260FAB			
Lab Samp ID:	4788MB	Prep Meth:	SW5030B			
Analysis Date:	04/13/2006	Prep Date:	04/13/2006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Methyl-tert-butyl ether (MTBE)	0.38	1.0	PQL	ND	UG/L	1
Ethyl tert-butyl ether (ETBE)	0.30	1.0	PQL	ND	UG/L	1
tert-Amyl methyl ether (TAME)	0.26	1.0	PQL	ND	UG/L	1
Di-isopropyl ether (DIPE)	0.37	1.0	PQL	ND	UG/L	1
tert-Butyl alcohol (TBA)	2.4	10.	PQL	ND	UG/L	1
1,2-Dichloroethane	0.30	0.50	PQL	ND	UG/L	1
1,2-Dibromoethane	0.30	0.50	PQL	ND	UG/L	1
Benzene	0.27	0.50	PQL	ND	UG/L	1
Toluene	0.25	0.50	PQL	ND	UG/L	1
Ethylbenzene	0.25	0.50	PQL	ND	UG/L	1
Xylenes	0.25	0.50	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene	86-118	SLSA		101%		1
Toluene-d8	88-110	SLSA		100%		1
Dibromofluoromethane	86-115	SLSA		100%		1

QA/QC Report

Matrix Spike/Duplicate Matrix Spike Summary

Bace Analytical, Windsor, CA

Lab Report No.: 4788 Date: 04/27/2006

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QC Batch: 20060413
 Matrix: Water
 Lab Samp ID: 4788MS
 Basis: Not Filtered

Project Name: Lab Generated or Non COE Sample
 Project No.: Lab Generated or Non COE Sample
 Field ID: Lab Generated or Non COE Sample
 Lab Ref ID: 4786-2

Analyte	Analysis Method	Spike Level DMS	Sample Result	Spike Result DMS	Units	% Recoveries		Acceptance Criteria	RPD
						MS	DMS RPD		
1,2-Dibromoethane	8260FAB	10.0	ND	10.0	9.87	UG/L	100	98.7	1.3
1,2-Dichloroethane	8260FAB	10.0	10.0	10.6	10.6	UG/L	106	106	0.00
Benzene	8260FAB	10.0	10.0	11.0	10.5	UG/L	110	105	4.7
Di-isopropyl ether (DPE)	8260FAB	10.0	10.0	8.61	8.16	UG/L	86.1	81.6	5.4
Ethyl tert-butyl ether (ETBE)	8260FAB	10.0	10.0	8.66	8.28	UG/L	86.6	82.8	4.5
Ethylbenzene	8260FAB	10.0	10.0	10.8	10.1	UG/L	108	101	6.7
Methyl-tert-butyl ether (MTBE)	8260FAB	10.0	ND	8.47	8.15	UG/L	84.7	81.5	3.9
Toluene	8260FAB	10.0	10.0	10.9	10.3	UG/L	109	103	5.7
Xylenes	8260FAB	30.0	30.0	32.6	30.8	UG/L	109	103	5.7
tert-Amyl methyl ether (TAME)	8260FAB	10.0	10.0	8.13	8.10	UG/L	81.3	81.0	0.37
tert-Butyl alcohol (TBA)	8260FAB	50.0	50.0	34.2	34.5	UG/L	68.4	69.0	0.87
4-Bromofluorobenzene	8260FAB	100.	100.	101.	98.	PERCENT	98.0	98.0	0.00
Dibromoformmethane	8260FAB	100.	100.	99.	99.	PERCENT	99.0	99.0	0.00
Toluene-d8	8260FAB	100.	100.	100.	99.	PERCENT	99.0	100	1.0

Chain-of Custody Form

Project #	Project Name 403.070 K & S AUTOMOTIVE 3610 GRAVENSTEIN HWY. SOUTHLAKE, TX			C.O.C. No.	11534
L.P. No.	Sampler's Signature <i>Chris Scott</i>			Remarks: 2-WEEK TAT	
Analysis					
Date Sampled	Sample I.D.	Time (24 Hour)	Sample Type	No. of Containers	
4-11-06	MW-1	1100	WATER	4	X X X X
	MW-3	1136		1	X X X X
	MW-4	1011		1	X X X X
	MW-7	1216		1	X X X X
Preservation:					
A - HCl B - H ₂ SO ₄ C - NaOH D - HNO ₃ E - Ice F - (specify) <i>at</i>					
Laboratory: <i>LENNIX ANALYTICAL</i>					
Relinquished by: <i>Chris Scott</i> (signed)	Date/Time 4/11/06 1416	Received by: <i>John Doe</i> (signed)	Date/Time 4/12/06 0910	Remarks: 2-WEEK TAT	Brunsing Associates, Inc.
Relinquished by: <i> </i> (signed)	Date/Time	Received by: <i> </i> (signed)	Date/Time	P.O. Box 588 5803 Skylane Blvd., Suite A Windsor, CA 95492 (707) 838-3027 (707) 838-4420 fax	
Relinquished by: <i> </i> (signed)	Date/Time	Received for Laboratory by: <i>ATTN: DAVE CONLEY</i> (signed)	Date/Time		